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## (54) BASE SEQUENCE CODING BONDED INTERFERON

(57)Abstract:

PURPOSE: To provide a bonded interferon composed of a base sequence coding a bonded interferon obtained by linking  $\beta$ -type interferon and  $\gamma$ -type interferon and having broad working spectrum exhibiting a biological activity with single polypeptide.

CONSTITUTION: A base sequence coding a bonded interferon produced by linking  $\beta$ -type interferon and  $\gamma$ -type interferon. The  $\beta$ -type polypeptide is bonded to the N-terminal of the new bonded polypeptide and the  $\gamma$ -type polypeptide is disposed to the C-terminal or vice versa. For producing the bonded interferon by genetic engineering technique, a proper controlling site for expression is bonded to a DNA having a structure obtained by linking base sequences coding respective  $\beta$ -type and  $\gamma$ -type interferons directly or via a base sequence coding a spacer peptide. The expression in the recombinant can be achieved by this technique. A gene on a chromosome or a cDNA can be used as a gene for coding  $\beta$ -type or  $\gamma$ -type interferon, however, use of cDNA is preferable.

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